

HuMAb Binding to Hematopoietic cell lines

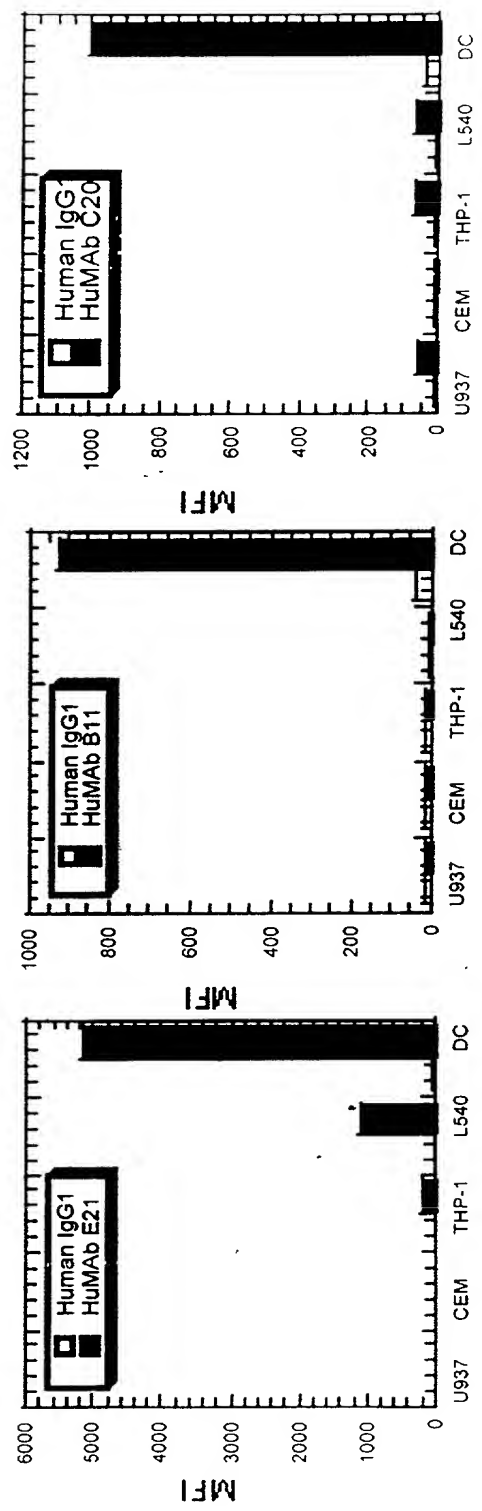


FIGURE 1

HuMAb Binding to dendritic cells

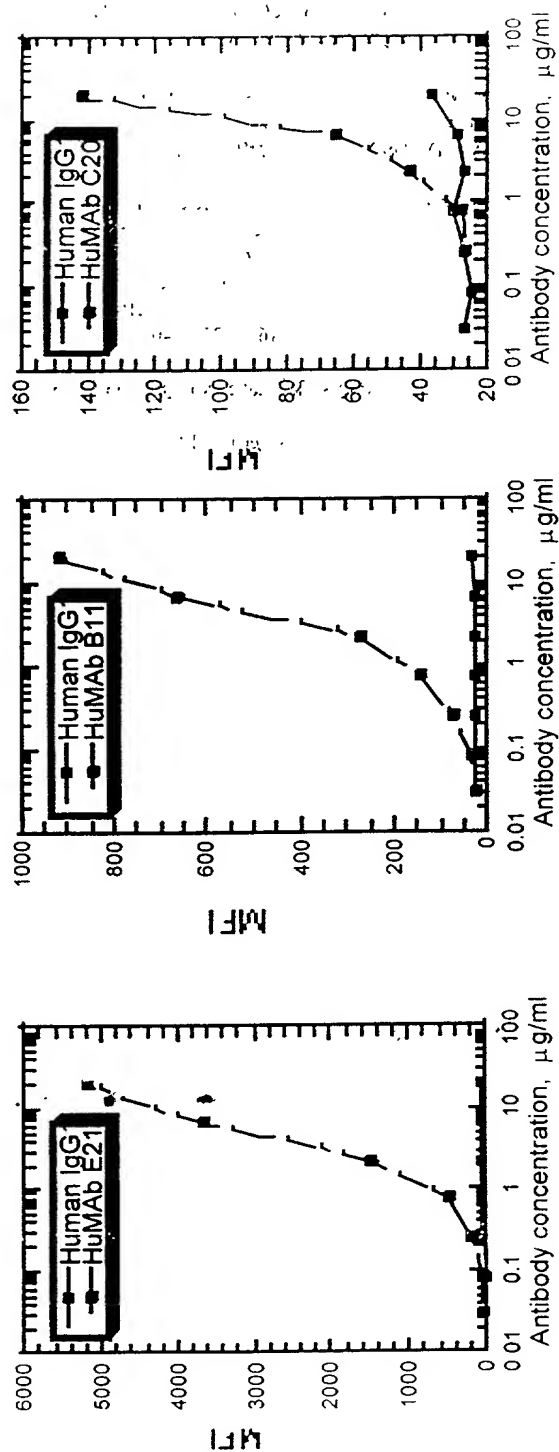


FIGURE 2

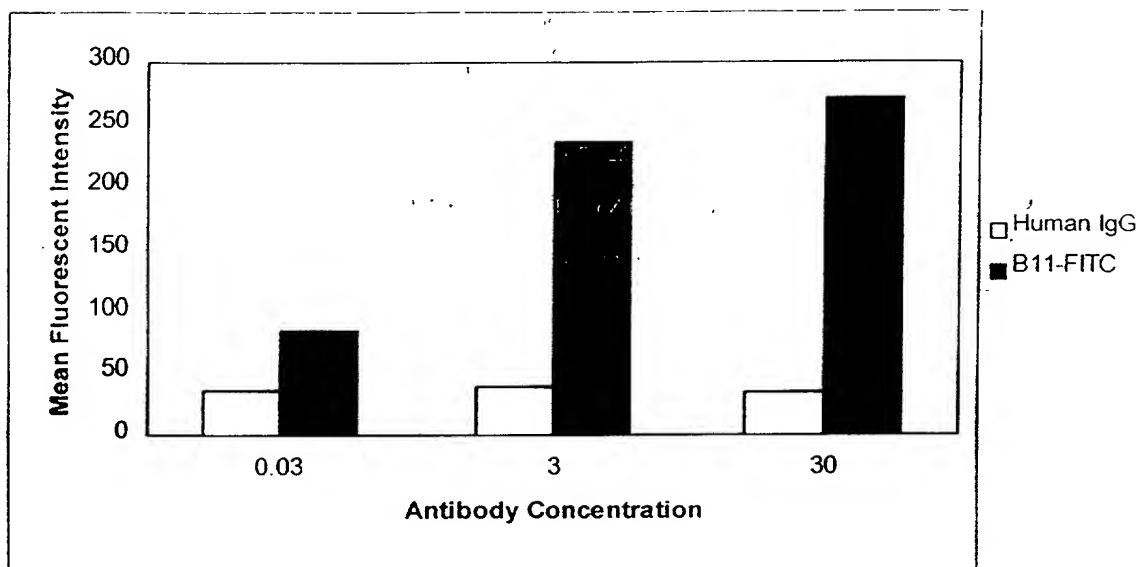


FIGURE 3

Macrophages

Dendritic Cells

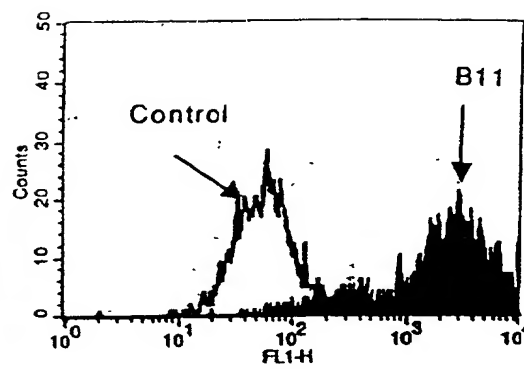
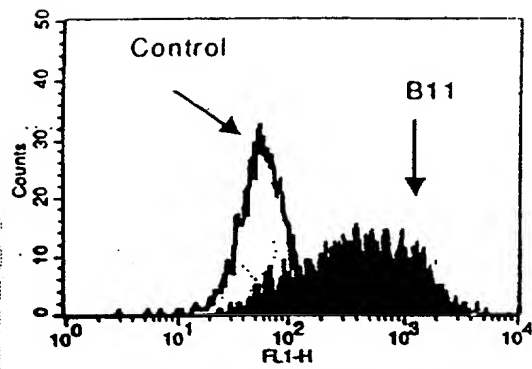


FIGURE 4

THP-1 Cells

THP-1 Cells Cultured
with GM-CSF and IL-4

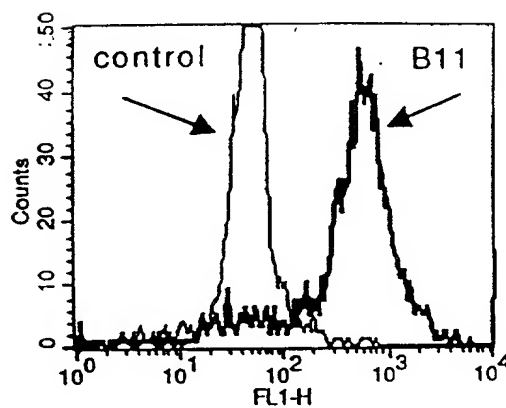
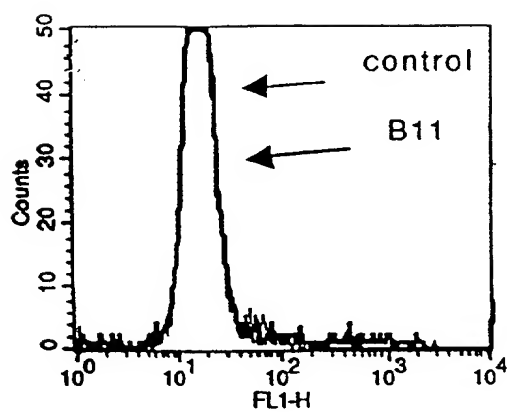


FIGURE 5

Figure 6: Bar chart showing Mean Fluorescent Intensity (Y-axis, 0 to 60) for three antibody treatments (X-axis): B11-FITC, Anti-Her2-FITC, and Auto control. B11-FITC shows the highest intensity (approx. 50), while Anti-Her2-FITC and Auto control show lower intensities (approx. 7 and 8, respectively).

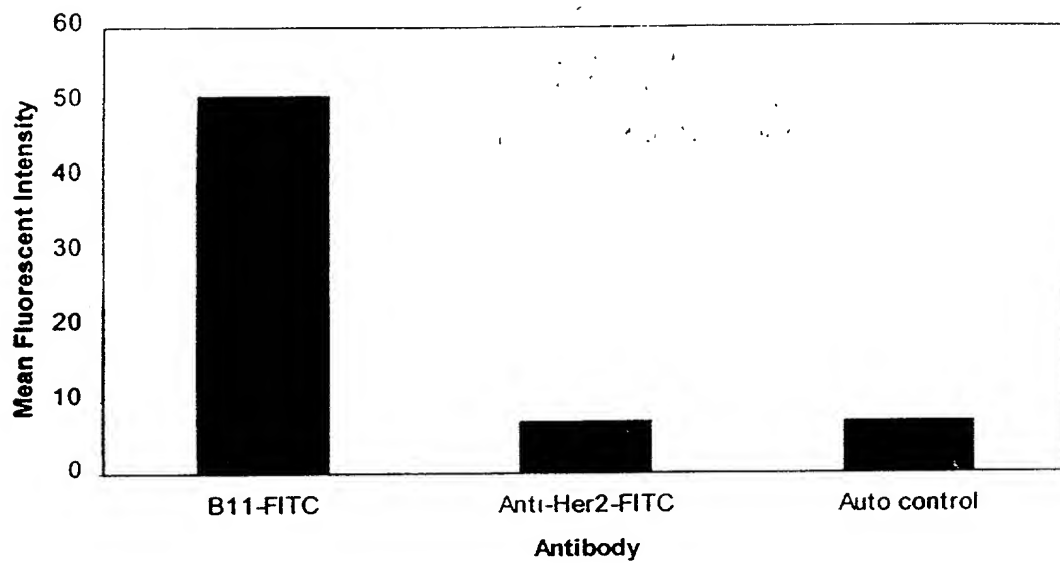


FIGURE 6

Figure 7 shows the effect of time on the internalization of B11 by dendritic cells. The data indicates that internalization increases over time, reaching a plateau of approximately 120% after 150 minutes.

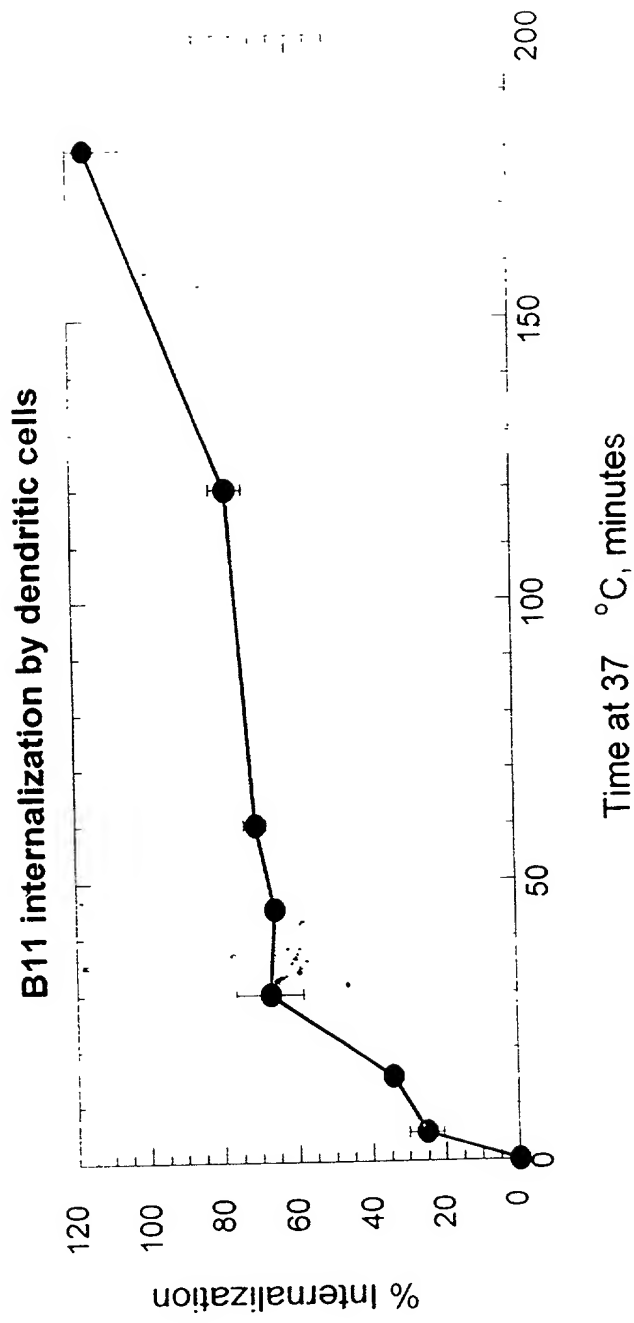


FIGURE 7

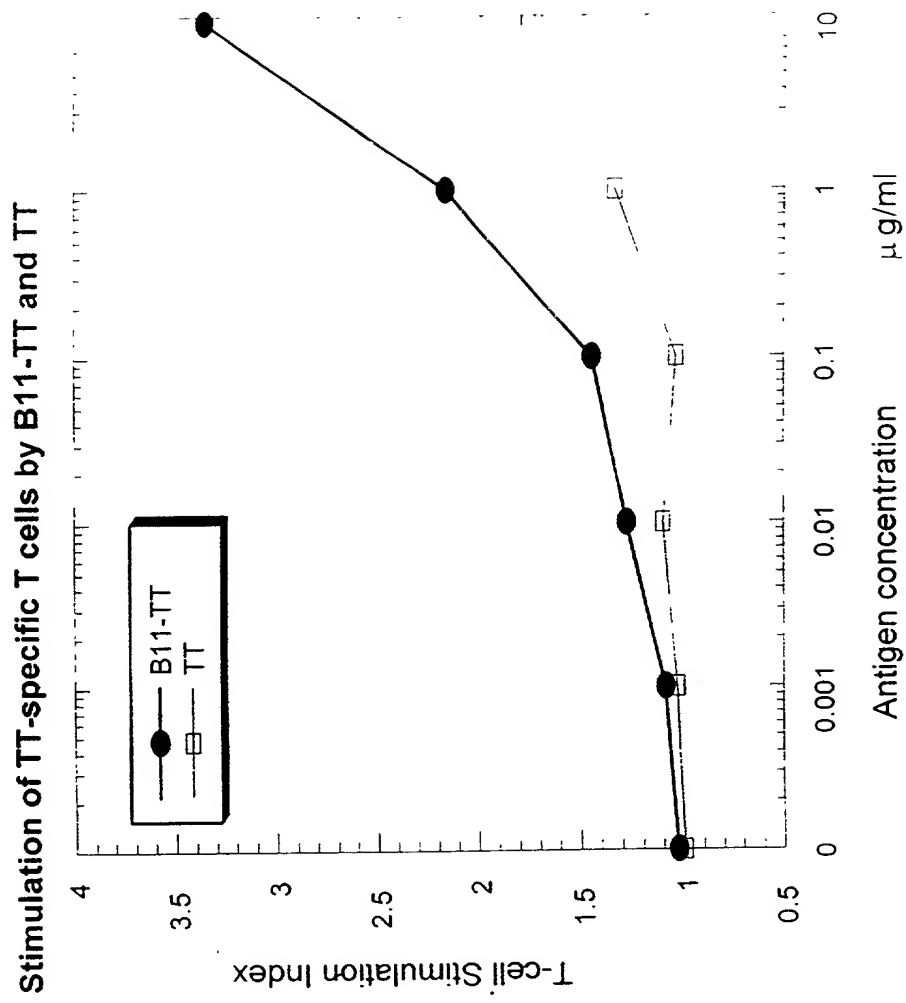


FIGURE 8

bioRxiv preprint doi: <https://doi.org/10.1101/000000>; this version posted January 1, 2015. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

B11-ScFv construct map:

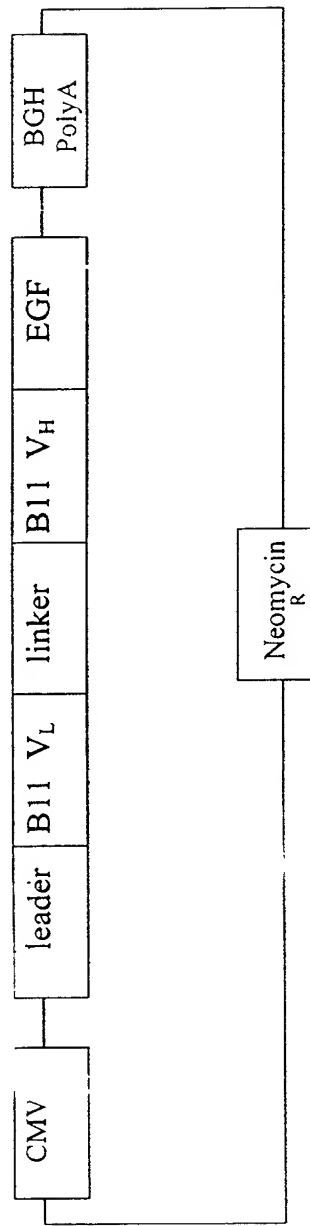


FIGURE 9

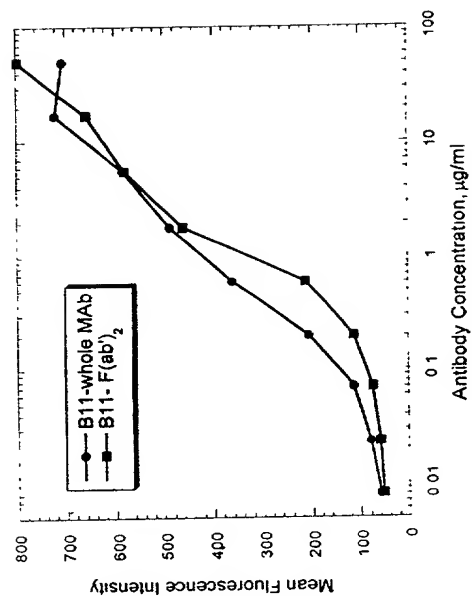


FIGURE 10

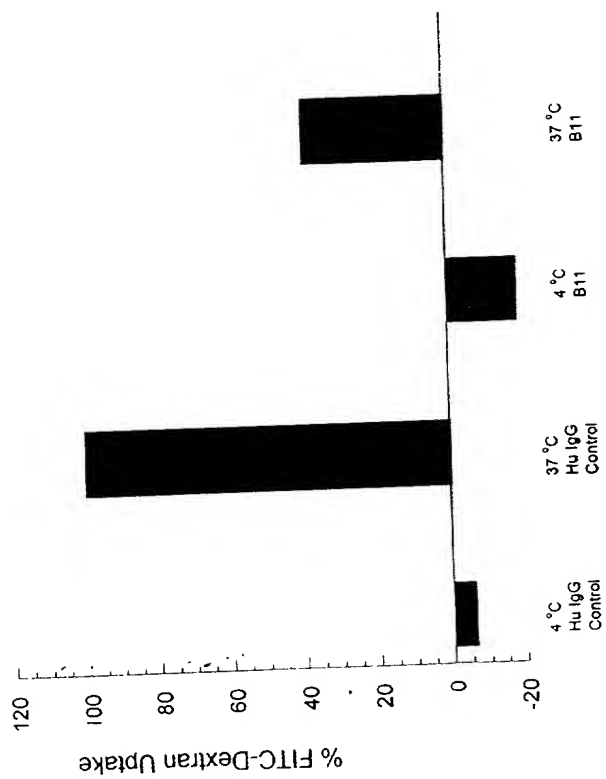


FIGURE 11

Enhanced antigen processing and presentation with B11-targeting

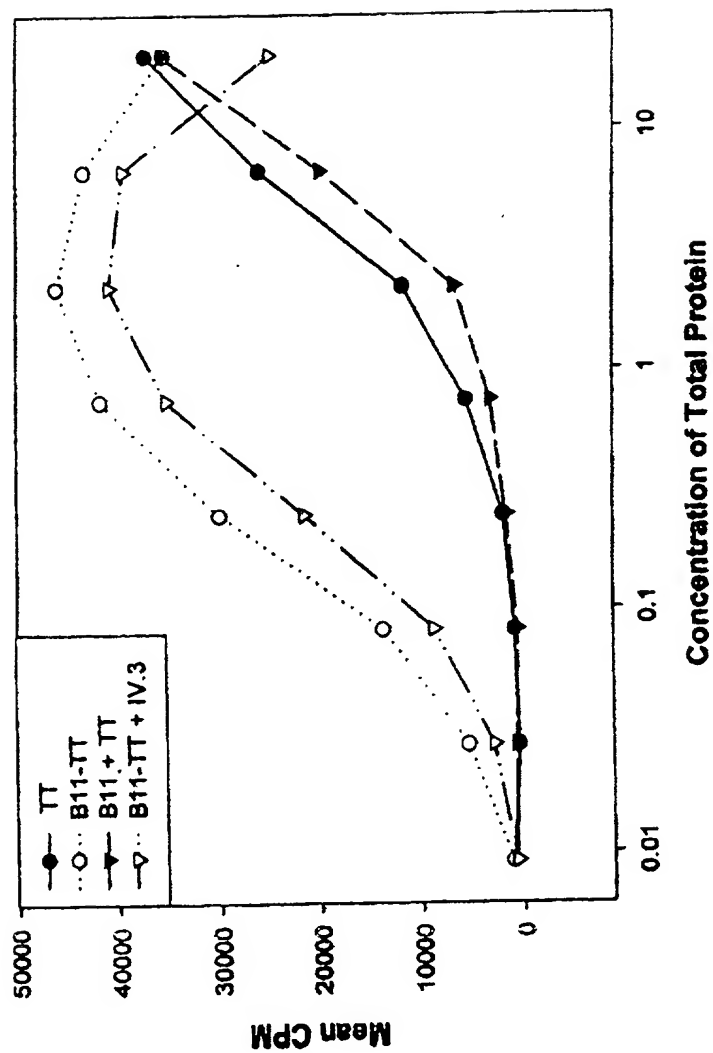


FIGURE 12

B11 HuMAb sequence data:

B11 VL DNA:

GACATCCAGATGACCCAGTCTCCATCCTCACTGTCTGCATCTGTAGGAGACA
GAGTCACCATCACTTGTCGGGCGAGTCA
GGGTATTAGCAGGTGGTTAGCCTGGTATCAGCAGAAACCAGAGAAAGCCCCT
AAGTCCCTGATCTATGCTGCATCCAGTT
TGCAAAGTGGGGTCCCATCAAGGTTCAGCGGCAGTGGATCTGGGACAGATTT
CACTCTCACCATCAGCGGCCTGCAGCCT
GAAGATTTTGCAACTTATTACTGCCAACAGTATAATAGTTACCCTCGGACGTT
CGGCCAAGGGACCAAGGTGGAAATCAA
A

B11 VL protein:

DIQMTQSPSSLSASVGDRTTITCRASQGISRWLA WYQQKPEKAPKSLIYAASSLQ
SGVPSRFSGSGSGTDFLTISGLQP
EDFATYYCQQYNSYPRTFGQGTKVEIK

B11 VH DNA:

GAGGTGCAGCTGGTGCAGTCTGGAGCAGAGGTGAAAAAGCCCGGGGAGTCT
CTGAGGATCTCCTGTAAGGGTTCTGGAGA
CAGTTTTACCACCTACTGGATCGGCTGGGTGCGCCAGATGCCCGGGAAAGGC
CTGGAGTGGATGGGGATCATCTATCCTG
GTGACTCTGATACCATATACAGCCCGTCCTTCCAAGGCCAGGTCACCATCTCA
GCCGACAAGTCCATCAGCACCGCCTAC
CTGCAGTGGAGCAGCCTGAAGGCCTCGGACACCGCCATGTATTACTGTACGA
GAGGGGACCGGGGCGTTGACTACTGGGG
CCAGGGAACCCTGGTCACCGTCTCCTCA

B11 VH protein:

EVQLVQSGAEVKKPAGESLRISCKGSGDSFTTYWIGWVRQMPGKGLEWMGHIIYPG
DSDTIYSPSFQGQVTISADKSISTAY
LQWSSLKASDTAMYYCTRGRGV^YWGQGLVTVSS

FIGURE 13

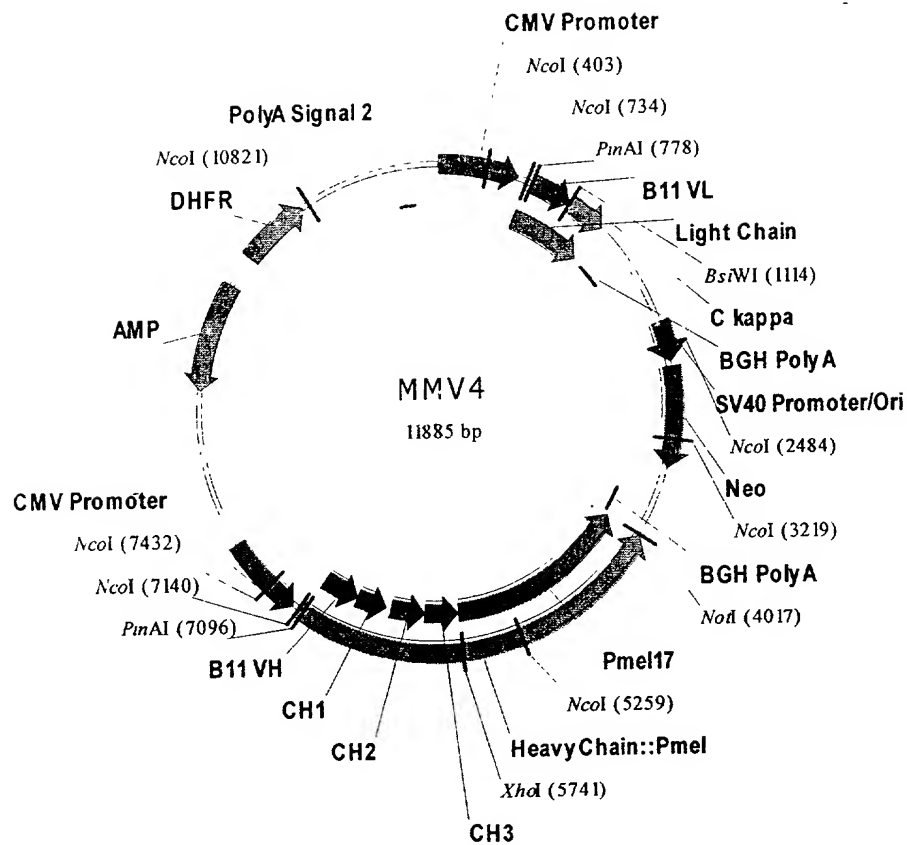


FIGURE 14